

**INDUCTION GENERATION SYSTEM AND METHOD****ABSTRACT OF THE DISCLOSURE**

5 An induction generator having one or more energy windings and one or more  
auxiliary windings where the auxiliary windings have fixed and switched capacitors  
which are used to control the induction generator output under variable load  
conditions. The auxiliary windings are electrically and magnetically isolated from the  
energy windings. The fixed capacitors are used under minimum load condition and  
the switched capacitors added in response to controls signals. The control signals are  
determined by analyzing the load voltage and current and the voltage across the  
10 particular capacitor being added. The induction generator is included in systems  
where the generator is rotationally driven by an engine and which couples the energy  
windings to a power grid and/or to a variable load. The engine may also employ a  
controller that receives the load current and voltage signals to determine engine  
speed.